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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/474,032 12/28/1999		/28/1999	XIAOLIN LU	101448	1769
7	7590	07/21/2003			
S H Dworetsky				EXAMINER	
AT&T Corporation P O Box 4110			HA, YVONNE QUY M		
Middletown, NJ 07748			ART UNIT PAP	PAPER NUMBER	
				2697	
				DATE MAILED: 07/21/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summany	09/474,032	LU ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAII INC DATE of this communication and	Yvonne Q. Ha	2697					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ Responsive to communication(s) filed on <u>05 </u>	<u>//ay 2003</u> .						
2a)☐ This action is FINAL . 2b)⊠ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>3-10 and 13-24</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>3-10 and 13-2</u> £is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents	s have been received in Applicat	ion No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)					
U.S. Patent and Trademark Office PTO 326 (Pay, 04-01) Office Ac	tion Summary	Part of Paner No. 6					

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DETAILED ACTION

Response to Amendment

1. Amended claims 21, 22 have been entered. Claims 3-10, 13-22 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 3-10, 13-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hou et al. (US Patent 6,324,184) in view of Chuah (US Patent 6,377,548) in further view of Fichou (US Patent 6,072,773).

Referring to claims 21, 22, 4, 6, 8, 14, 16, and 18, Hou discloses a method for regulating traffic in a network (col. 2, line 1-6, figure 1); network that includes media (col. 2, lines 64-67); and media access controllers (MACs) (col. 3, lines 63-65; col. 4, lines 49-60); each of the MACs controlling one or more media of the network (col. 5, lines 66-67, col. 6, lines 1-13, MAC controls different medium in terms of different channels, bandwidths and data rates), each of the MACs making unavailable an amount of media transmission capacity as reserve capacity (col. 5, lines 47-50, MAC controls the establishment and release of network bandwidth resources). Hou failed to disclose blocking end-users from gaining access to the network by asserting a traffic regulation signal in a channel of the network, adjusting the amount of reserve capacity based on a desired network performance. However, Fichou discloses a call admission control procedure protecting the network from potentially high bursty traffic and an access node reserves

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bandwidth for bursty traffic according to a connection specified QoS (col. 4, lines 34-36), the tolerance values (i.e. traffic regulation) declared at connection setup (i.e. control signal) in a plurality of access (col. 4, lines 44-48). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Hou MAC controller, Chuah traffic regulation and Fichou traffic parameters at connection setup because regulating traffic in a plurality of access/transit nodes require a congestion control procedures, which means a contention method would be necessary to avoid collisions or idle slots. Contention method on different slots/channels occurs at the beginning of the call set-up where conflict resolution and granting access are determined. Granting access to the "winning" remote host means the criteria has met (i.e. priority class, QoS, or available bandwidth at the time of contention).

Referring to claims 3 and 13, Hou discloses all aspects of the claimed invention but failed to teach priority or privilege of end user. However, Chuah discloses the traffic regulation signal blocks all end-users or end-users of a specific class, the class being defined by one or more of priority, QoS, or privilege (col. 22, lines 19-27, access control based on priority class). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Hou MAC controller, Chuah traffic regulation and Fichou traffic parameters because regulating traffic in a plurality of access/transit nodes require a congestion control procedure, granting access/bandwidth to a particular end user would require class priority or service type priority in order to avoid a bursty network or collisions.

Referring to claims 5 and 15, Hou discloses all aspects of the claimed invention but failed to teach the in-band/out-of-band signaling. However, Chuah discloses all aspects of the claimed invention and further teaches the protocol uses one of in-band signals, out-of-band signals or

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independent channel signals to control access to the network (col. 8, lines 1-10, foreign mobility and inter working function, i.e. out-of-band signaling; home switching and home server, i.e. performs in-band signaling or interworking with foreign switch, i.e. out-of-band signaling). At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teaching of Hou MAC controller, Chuah traffic regulation and Fichou traffic parameters because the MAC controller could be used as a central hub for interfacing to other types of users (i.e. different data rate or channels as in-band signaling) as presented by Hou. With the teaching of Chuah, an interworking function would allow a user to communicate outside of its network. This combination of network interaction would give the network more flexibility to communicate to any end user, regardless whether the user in inside or outside of its home network.

Referring to claims 7 and 17, Hou discloses all aspects of the claimed invention and further teaches the monitoring is performed by media access controllers (MACS) for each media of the network that requires access control (col. 3, lines 63-65; col. 4, lines 49-60), the media access controllers controlling a local reserve capacity of each respective media based on system parameters (col. 5, lines 66-67, col. 6, lines 1-13, MAC controls different medium in terms of different channels, bandwidths and data rates) and monitoring data generated by each of the MACs (col. 5, lines 22-25, link management function).

Referring to claims 9 and 19, Hou discloses all aspects of the claimed invention and further teaches receiving in the central traffic regulation controller the monitoring data generated by the MACs (col. 6, lines 34-35, monitoring function; col. 8, lines 57-65, controller maintaining the traffic counter per user over control intervals); and issuing traffic regulation commands from

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the central traffic regulation controller to the MACs to regulate traffic in each of the media to achieve network performance requirements (col. 7, lines 28-30; 36-47 traffic parameters, i.e. regulation; col. 8, lines 57-65, controller maintaining the traffic counter per user over control intervals).

Referring to claims 10 and 20, Hou discloses all aspects of the claimed invention and further teaches each of the MACS is one of a dedicated media access controller or an end-user that includes a media access function (col. 6, lines 32-35, contention/non-contention access on MAC).

Response to Arguments

4. Applicant's arguments with respect to claims 3-10, 13-22 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Bertin et al. (US Patent 6,011,804) discloses dynamic bandwidth
 reservation for control traffic in high speed packet switching networks
 - Cukier et al. (US Patent 6,175,570) discloses shaping the output traffic in a fixed length cell switching network
 - Mc Namara et al. (US Patent 5,436,902) discloses Ethernet extender
 - Packer (US Patent 6,046,980) discloses system for managing flow bandwidth utilization at network

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• Edmon et al. (US PUB 2002/0057709) discloses enabling multiple access

on a broadband communication network

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Yvonne Q. Ha whose telephone number is 703-305-8392. The

examiner can normally be reached on Monday-Friday 7a.m.-4p.m. Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ricky Ngo can be reached on 703-305-4798. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-305-3988 for regular

communications and 703-305-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-3900.

YQH July 1, 2003

PRIMARY EXAMINER